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Attorney Docket No. 020093-000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

MICHAEL L. SALGALLER, et al.

Application No.: 09/854,248

Filed: May 11, 2001

For: METHOD TO INCREASE CLASS I

PRESENTATION OF

EXOGENOUS ANTIGENS BY HUMAN DENDRITIC CELLS

Unassigned Examiner:

Art Unit: 1614

> INFORMATION DISCLOSURE **STATEMENT**

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

Applicants direct the Examiner's attention to the references below, also listed on the accompanying Form PTO-1449. A copy of each is also enclosed.

The following U.S. Patents are set forth below by issue date:

AA. U.S. Patent No. 5,162,504 issued on November 10, 1992 to

Horoszewicz.

U.S.Patent No. 5,227,471 issued on July 13, 1993 to Wright, Jr. AB.

AC. U.S. Patent No. 5,314,996 issued on May 24, 1994 to Wright, Jr.

U.S. Patent No. 5,788,963 issued on August 4, 1998 to Murphy et al. AD.

The following international publications are set forth by publication date:

PCT Publication No. WO 94/02156 published on February 3, 1994. AE.

AF. PCT Publication No. WO 98/15616 published on April 16, 1998. Page 2

The following articles are set forth by the indicated year of publication date:

- AG. Poste et al., "Lipid Vesicles as Carriers for Introducing Biologically Active Materials into Cells," *Methods in Cell Biology*, 14:33-71 (1976).
- AH. Haskill et al., "Systemic and Local Immunity in Allograft and Cancer Rejection," *Contemp. Top. Immunobiol.*, 8:107-170 (1978).
- AI. Papsidero et al., "A Prostate Antigen in Sera of Prostatic Cancer Patients," *Cancer Res.*, 40:2428-2432 (July, 1980).
- AJ. Okada et al., "Introduction to Macromolecules into Cultured Mammalian Cells by Osmotic Lysis of Pinocytic Vesicles," *Cell*, 29:33-41 (May, 1982).
- AK. Horoszewicz et al., "The LNCaP Cell Line-A New Model for Studies on Human Prostatic Carcinoma," *Prog. Clin. Biol. Res.*, 37:115-132 (1983).
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- AM. Inaba et al., "Direct Activation of CD8⁺ Cytotoxic T Lymphocytes by Dendritic Cells," *J. Exp. Med.*, 166:182-194 (July, 1987).
- AN. Macatonia et al., "Primary Stimulation by Dendritic Cells Induces Antiviral Proliferative and Cytotoxic T Cell Responses In Vitro," *J. Exp. Med.*, 169:1255-1264 (April, 1989).
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- AP. Markowicz et al., "Granulocyte-Macrophage Colony-Stimulating Factor Promotes Differentiation and Survival of Human Peripheral Blood Dendritic Cells In Vitro," *J. Clin. Invest.*, 85:955-961 (March, 1990).
- AQ. Young et al., "Dendritic Cells Stimulate Primary Human Cytolytic Lymphocyte Responses in the Absence of CD4⁺ Helper T Cells," *J. Exp. Med.*, 171:1315-1332 (April, 1990).
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- AT. Feng et al., "Purification and Biochemical Characterization of the 7E11-C5 Prostate Carcinoma-Associated Antigen," *Proc. Am. Assoc. Cancer Res.*, 32:(Abst. 1418)239 (March, 1991).
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- AV. Macatonia et al., "Primary Proliferative and Cytotoxic T-Cell Responses to HIV Induced *In Vitro* by Human Dendritic Cells," *Immunology*, 74:399-406 (1991).
- AW. Reddy et al., "PH Sensitive Liposomes Provide an Efficient Means of Sensitizing Target Cells to Class I Restricted CTL Recognition of a Soluble Protein," J. Immunol. Methods, 141:157-163 (1991).
- AX. Steinman, "The Dendritic Cell System and Its Roll in Immunogenicity," Ann. Rev. Immunol., 9:271-296 (1991).
- AY. Schwartz, "Costimulation of T Lymphocytes: The Role of CD28, CTLA-4, and B7/BB1 in Interleukin-2 Production and Immunotherapy," *Cell*, 71:1065-1068 (December 24, 1992).
- AZ. De Bruijn et al., "Mechanisms of Induction of Primary Virus-Specific Cytotoxic T Lymphoctye Responses," *Eur. J. Immunol.*, 22:3013-3020 (1992).
- BA. Pardoll, "New Strategies for Active Immunotherapy with Genetically Engineered Tumor Cells," *Curr. Opin. Immunol.*, 4:619-623 (1992).
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- BE. Israeli et al., "Expression of the Prostate-Specific Membrane Antigen," *Cancer Res.*, 54:1807-1811 (April 1, 1994).

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- BR. Dozmorov et al., "In Vitro Production of Antigen-Specific T Cells from Unprimed Mice: Role of Dexamethasone and Anti-IL-10 Antibodies," Cell Immunol., 178(2):187-196 (1997).
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- BU. Reiter, et al., "Prostate Stem Cell Antigen: A Cell Surface Marker Overexpressed in Prostate Cancer," *Proc. Natl. Acad. Sci. USA*, 95:1735-1740 (February, 1998).
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- CB. Hubert et al., "STEAP: A Prostate-Specific Cell-Surface Antigen Highly Expressed in Human Prostate Tumors," *Proc. Natl. Acad. Sci. USA*, 96:14523-14528 (December 7, 1999).
- CC. Murphy et al. "Phase II Prostate Cancer Vaccine Trial: Report of a Study Involving 37 Patients with Disease Recurrence Following Primary Treatment," *Prostate*, 39:54-59 (1999).

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It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. However, Applicants reserve the right to demonstrate that their claimed invention was made prior to any one or more of the above-identified references. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicants respectfully request that the Examiner review the foregoing references to make his own determination of the patentability of the present invention and that the references be made of record in the file of this application.

This Information Disclosure Statement is being filed prior to the mailing date of the first Office Action. Although no fee is believed to be due, the Commissioner is hereby authorized to charge any fees necessitated by this transmittal to Townsend and Townsend Deposit Account No. 20-1430.

Respectfully submitted,

Dated: 17 January 2002

Bv:

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